	Application No.	Applicant(s)
Notice of Allowability	10/083,613	BLISS ET AL.
	Examiner	Art Unit
	Matthew J Song	1765
The MAILING DATE of this communication appeall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RID of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to 11/26/2004.		
2. The allowed claim(s) is/are <u>1-14 and 20</u> .		
3. $igotimes$ The drawings filed on ${\it 04~June~2002}$ and 26 February 2002	are accepted by the Examiner.	
 Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		
Certified copies of the priority documents have	· · · · · · · · · · · · · · · · · · ·	
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF tion is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	ratent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary	· · · · · · · · · · · · · · · · · · ·
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat	te <u>050215</u> .
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🕅 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. Other	2. Nedesile for Allemande
		NADINE G. NORTON VISORY PATENT EXAMINER

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Application/Control Number: 10/083,613

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/4/2004 has been entered.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas Stover on 2/15/2005.

3. The application has been amended as follows:

Cancel claims 15-19

Allowable Subject Matter

4. The following is an examiner's statement of reasons for allowance: The closest prior art is Vaudo et al (US 6,156,581), Hirota et al (EP 1065299 A2) and Jain (US 4,910,163). Vaudo et al

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teaches a HVPE method of forming metal nitrides by reacting HCl with a metal to form a metal halide compound, which is then reacted with a nitrogen containing gas to form a metal nitride at a pressure of 50 Torr (col 10, ln 15-67, col 12, ln 25-40 and col 11, ln 1-40). Vaudo et al does not teach using iodine vapor. Hirota et al teaches a HVPE method of forming metal nitrides using HCl or iodine vapor ([0054]-[0058]). Hirota et al does not teach heating iodine solids to generate iodine vapor. Jain teaches a method of heating iodine solids to form iodine vapor in a deposition process (col 2, ln 25-55). Vaudo et al, Hirota et al and Jain do not teach or suggest adjusting the heat applied to the iodine solids and metal to vary and control the properties of the metal nitride.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J Song whose telephone number is 571-272-1468. The examiner can normally be reached on M-F 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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MJS February 15, 2005

> NADINE G. NORTON BURERVISORY PATENT EXAMINER